



LOMASR.023CP1

Customer No. 20,995

### SUMMARY OF INTERVIEW

Applicant : Denney *et al.*  
Appl. No. : 10/803,243  
Filed : March 18, 2004  
For : LASER HEAD FOR  
IRRADIATION AND REMOVAL  
OF MATERIAL FROM A  
SURFACE OF A STRUCTURE  
Examiner : M. Alexandra Elve  
Group Art Unit : 1725

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

November 30, 2005

(Date)

William Bunker, Reg. No. 29,365

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

#### Examiner's Use ONLY

- ☐ Discrepancies found, Examiner's Amendment to follow.  
☐ Record complete and accurate - Interview Record OK

Examiner's Initials: \_\_\_\_\_

Review Date: \_\_\_\_\_

Dear Sir:

Pursuant to the Interview Summary of October 31, 2005, Applicant submits this Summary of Interview for recording in the official file.

#### Attendees, Date and Type of Interview

The interview was conducted in person and attended by the Examiner, M. Alexandra Elve, and Applicants' Representative, William Bunker.

#### Exhibits and/or Demonstrations

Photos and video of a prototype laser system for material processing.

#### Identification of Claims Discussed

Claim 1, as amended October 18, 2005:

A laser head adapted to irradiate an interaction region of an inhabitable structure with laser light to remove material from the structure, the laser head comprising:

a housing;

an anchoring mechanism reversably coupled to the housing and releasably affixed to the structure by vacuum pressure, the anchoring mechanism releasably holding the

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laser head at a selected position in relation to the structure;

a connector coupled to the housing and optically coupled to a laser generator, the connector adapted to transmit laser light from the laser generator;

a first optical element contained in the housing and optically coupled to the connector, the first optical element adapted to receive laser light from the connector and reflect the laser light from the connector through a first non-zero angle;

a second optical element contained in the housing and optically coupled to the first optical element, the second optical element adapted to receive laser light from the first optical element and reflect the laser light from the first optical element through a second non-zero angle; and

a containment plenum coupled to the housing, the containment plenum optically coupled to the second optical element to receive the laser light from the second optical element, the containment plenum adapted to confine the material and remove the material from the interaction region resulting from irradiating the structure with the laser light.

#### Identification of Prior Art Discussed

Although the Interview Summary form completed by the Examiner indicates that only *Uraki et al.* (U.S. Patent No. 5,977,515) was discussed, it will be noted that the *Otsubo et al.* (U.S. Patent No. 6,507,000) reference was also discussed in interviews held with the same Examiner in related cases on the same day, and thus was, in essence, discussed in connection with the subject application.

#### Proposed Amendments

None.

#### Principal Arguments and Other Matters

The claim taken as a whole is not anticipated or rendered obvious by the cited prior art, either taken along or as in combination.

#### Results of Interview

Agreement with respect to the claims was not reached.

The Examiner will subject the claim language to further searching on the topic of "an anchoring mechanism with the associated vacuum pressure." Where the Examiner refers to "an anchoring mechanism with the associated vacuum pressure," it was understood by the Examiner

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and the Applicants' Representative that the phrase is a shorthand or abbreviated phrase used for convenience, and refers to the language of Claim 1, taken as a whole, as set forth above.

No fees are believed due. However, please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 11/30/05

By: 

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